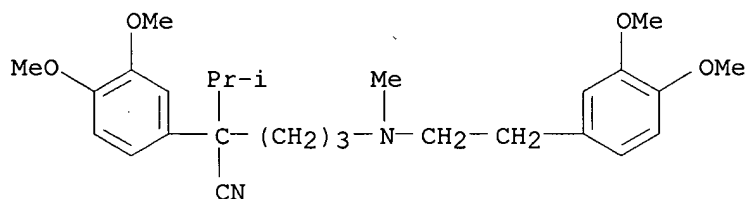


L1 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 52-53-9 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)methylamino]-2-(3,4-  
 dimethoxyphenyl)-2-isopropyl- (7CI, 8CI)  
 OTHER NAMES:  
 CN **(.+-.)-Verapamil**  
 CN 5-[(3,4-Dimethoxyphenethyl)methylamino]-2-(3,4-dimethoxy  
 phenyl)-2-isopropylvaleronitrile  
 CN CP 16533-1  
 CN D 365  
 CN **dl-Verapamil**  
 CN Iproveratril  
 CN NSC 272306NA  
 CN **R,S-Verapamil**  
 CN **Verapamil**  
 CN VPL  
 FS 3D CONCORD  
 DR 7482-85-1, 56949-77-0  
 MF C27 H38 N2 O4  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,  
 CHEMCATS, CHEMLIST, CIN, CSChem, CSNB, DDFU, DIOGENES, DRUGU, EMBASE,  
 HSDB\*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK\*, NIOSHTIC, PHAR,  
 PHARMASEARCH, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER,  
 ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7947 REFERENCES IN FILE CA (1957 TO DATE)  
 78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7955 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 1-25

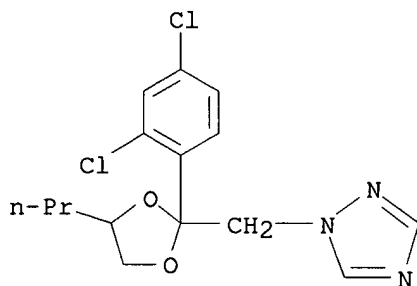
L1 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 460325-60-4 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with  
 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-  
 triazole (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Verapamil-propiconazole mixt.**  
 MF C27 H38 N2 O4 . C15 H17 Cl2 N3 O2  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

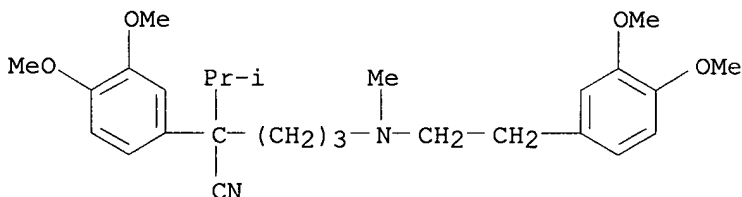
CM 1

CRN 60207-90-1  
 CMF C15 H17 Cl2 N3 O2



CM 2

CRN 52-53-9  
 CMF C27 H38 N2 O4



1 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

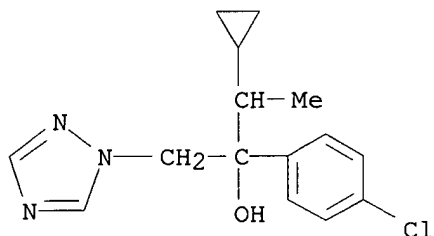
L1 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 460325-59-1 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with .alpha.-(4-chlorophenyl)-.alpha.-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Verapamil-cyproconazole mixt.**  
 MF C27 H38 N2 O4 . C15 H18 Cl N3 O  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

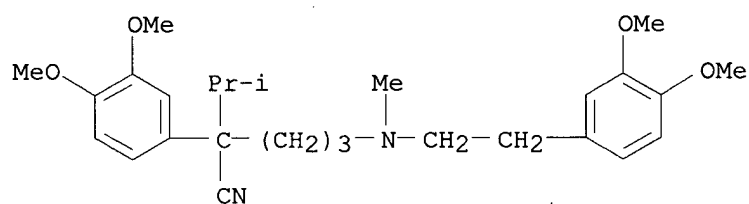
CRN 94361-06-5  
 CMF C15 H18 Cl N3 O



CM 2

CRN 52-53-9

CMF C27 H38 N2 O4



1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 302825-79-2 REGISTRY

CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (.gamma.R)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(R)-Verapamilamide**

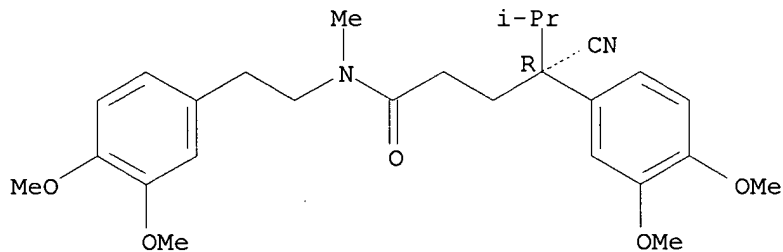
FS STEREOSEARCH

MF C27 H36 N2 O5

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 204642-98-8 REGISTRY  
 CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (.gamma.S)- (9CI) (CA INDEX NAME)

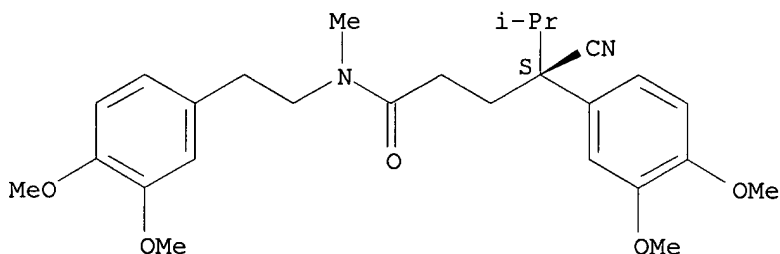
OTHER CA INDEX NAMES:

CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (S)-

OTHER NAMES:

CN **(S)-Verapamilamide**  
 FS STEREOSEARCH  
 MF C27 H36 N2 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1957 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 154670-15-2 REGISTRY

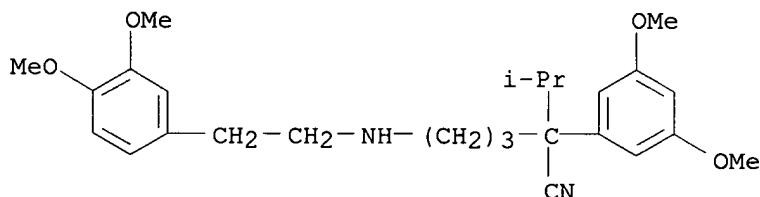
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,5-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,5-dimethoxy-.alpha.-(1-methylethyl)-, (.+.-)-

OTHER NAMES:

CN **Racemic norverapamil**  
 FS 3D CONCORD  
 MF C26 H36 N2 O4  
 SR CA  
 LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

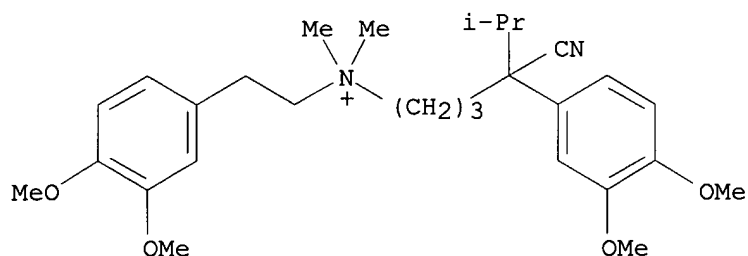
5 REFERENCES IN FILE CA (1957 TO DATE)  
 5 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 147152-26-9 REGISTRY  
 CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)-, (-)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(-)-N-Methylverapamil**  
 FS STEREOSEARCH  
 MF C28 H41 N2 O4  
 SR CA  
 LC STN Files: CA, CAPLUS

Rotation (-).



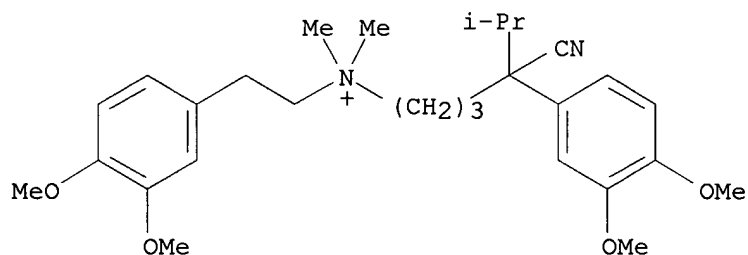
1 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 147152-25-8 REGISTRY  
 CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)-, (+)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(+)-N-Methylverapamil**  
 FS STEREOSEARCH  
 MF C28 H41 N2 O4  
 SR CA  
 LC STN Files: CA, CAPLUS

Rotation (+).



1 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 123932-43-4 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (R)-

OTHER NAMES:

CN **(R)-Norverapamil**

FS STEREOSEARCH

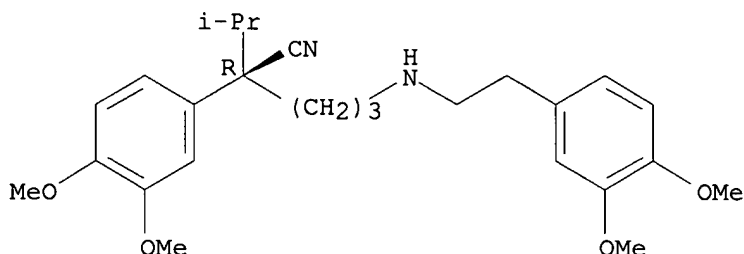
MF C26 H36 N2 O4

CI COM

SR CA

LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, TOXCENTER  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

42 REFERENCES IN FILE CA (1957 TO DATE)

44 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 123931-31-7 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (S)-

OTHER NAMES:

CN **(S)-Norverapamil**

FS STEREOSEARCH

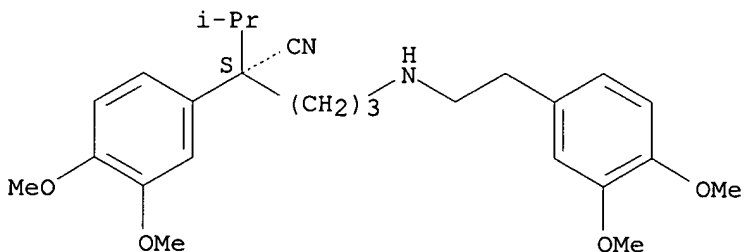
MF C26 H36 N2 O4

CI COM

SR CA

LC STN Files: BEILSTEIN\*, BIOBUSINESS, CA, CAPLUS, TOXCENTER  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

41 REFERENCES IN FILE CA (1957 TO DATE)

43 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 118258-24-5 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methyamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with N4-(7-chloro-4-quinolinyl)-N1,N1-diethyl-1,4-pentanediamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4-Pentanediamine, N4-(7-chloro-4-quinolinyl)-N1,N1-diethyl-, mixt. contg. (9CI)

OTHER NAMES:

CN **Chloroquine-verapamil mixt.**

MF C27 H38 N2 O4 . C18 H26 Cl N3

CI MXS

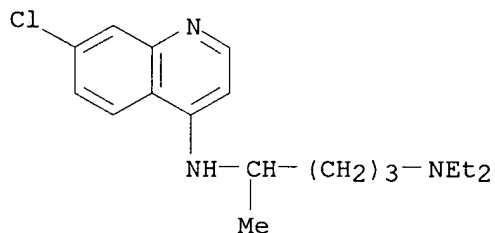
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 54-05-7

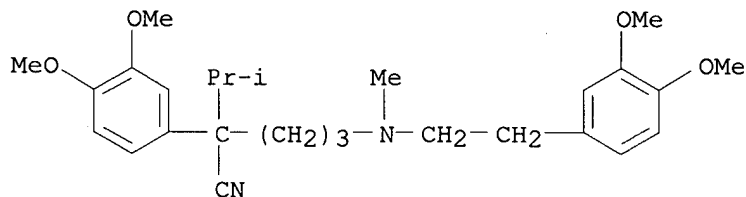
CMF C18 H26 Cl N3



CM 2

CRN 52-53-9

CMF C27 H38 N2 O4



1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2003 ACS

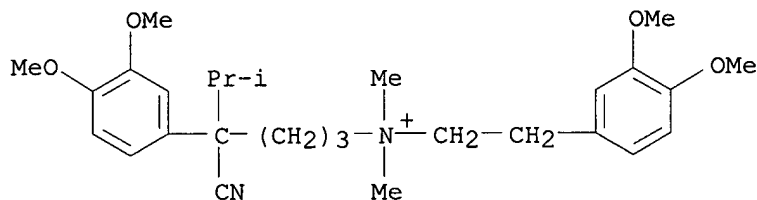
RN 111127-71-0 REGISTRY

CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(.+-.)-N-Methylverapamil**

FS 3D CONCORD  
 DR 147152-24-7  
 MF C28 H41 N2 O4  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



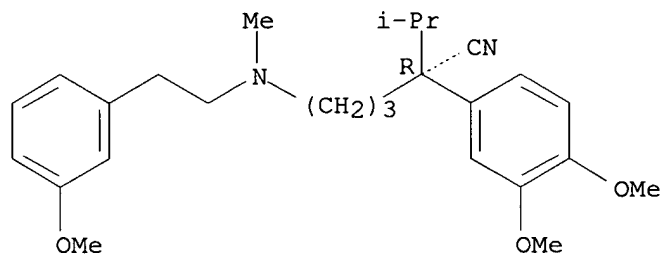
4 REFERENCES IN FILE CA (1957 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 93468-88-3 REGISTRY  
 CN Benzeneacetonitrile, 3,4-dimethoxy-.alpha.-[3-[[2-(3-methoxyphenyl)ethyl]methylamino]propyl]-.alpha.-(1-methylethyl)-, (R)-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (+)-D 888  
 CN **(+)-Desmethoxyverapamil**  
 CN (+)-Devapamil  
 CN (R)-(+)-Devapamil  
 CN (R)-Devapamil  
 FS STEREOSEARCH  
 MF C26 H36 N2 O3  
 LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

32 REFERENCES IN FILE CA (1957 TO DATE)  
 32 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 93468-87-2 REGISTRY  
 CN Benzeneacetonitrile, 3,4-dimethoxy-.alpha.-[3-[[2-(3-methoxyphenyl)ethyl]methylamino]propyl]-.alpha.-(1-methylethyl)-, (S)-(9CI) (CA INDEX NAME)

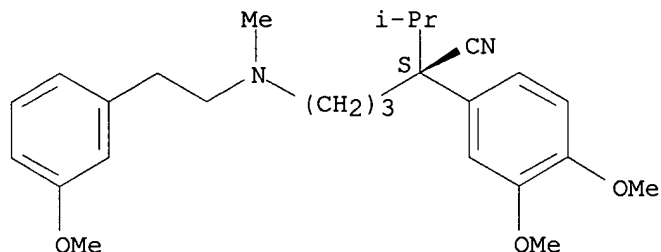
OTHER NAMES:

CN (-)-D 888  
 CN **(-)-Desmethoxyverapamil**



CN (-)-Devapamil  
 FS STEREOSEARCH  
 MF C26 H36 N2 O3  
 LC STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER

Absolute stereochemistry.



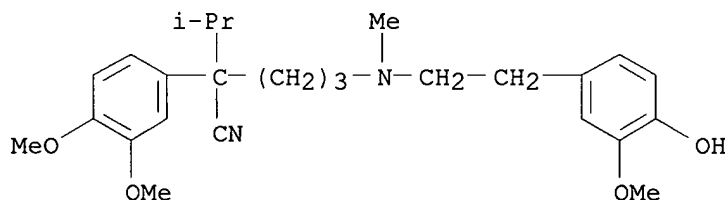
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

77 REFERENCES IN FILE CA (1957 TO DATE)  
 77 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 77326-93-3 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(4-hydroxy-3-methoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN D 702  
 CN PR 24  
 CN **PR 24 (verapamil metabolite)**  
 FS 3D CONCORD  
 MF C26 H36 N2 O4  
 LC STN Files: ANABSTR, CA, CAPLUS, IPA, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

16 REFERENCES IN FILE CA (1957 TO DATE)  
 16 REFERENCES IN FILE CAPLUS (1957 TO DATE)

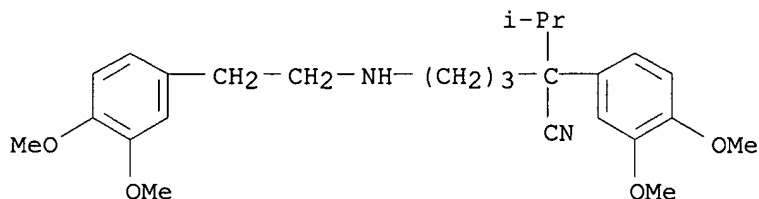
L1 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 67812-42-4 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)amino]-2-(3,4-dimethoxyphenyl)-2-isopropyl-, hydrochloride (7CI)

OTHER NAMES:

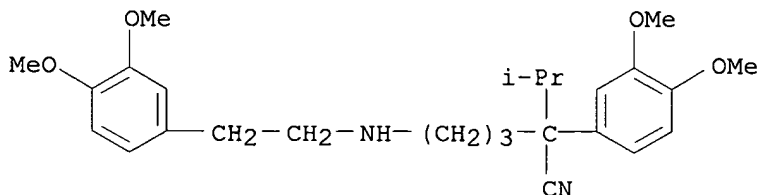
CN D 591 HCl  
 CN **Norverapamil hydrochloride**  
 MF C26 H36 N2 O4 . Cl H  
 LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, IPA, TOXCENTER, USPATFULL  
 CRN (67018-85-3)



● HCl

8 REFERENCES IN FILE CA (1957 TO DATE)  
 8 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 16 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 67018-85-3 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)amino]-2-(3,4-dimethoxyphenyl)-2-isopropyl- (7CI)  
 OTHER NAMES:  
 CN **(.+-.)-Norverapamil**  
 CN D 591  
 CN **Norverapamil**  
 FS 3D CONCORD  
 DR 73980-36-6  
 MF C26 H36 N2 O4  
 CI COM  
 LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, DDFU, DRUGU, EMBASE, IPA, MEDLINE, PROMT, TOXCENTER, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

171 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 171 REFERENCES IN FILE CAPLUS (1957 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 17 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 57986-99-9 REGISTRY  
 CN Alginic acid, sodium salt, mixt. with .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)benzeneacetonitrile monohydrochloride (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, mixt. contg. (9CI)  
 OTHER NAMES:  
 CN **Verapamil alginate**  
 MF C27 H38 N2 O4 . Cl H . Unspecified  
 CI MXS  
 LC STN Files: CA, CAPLUS

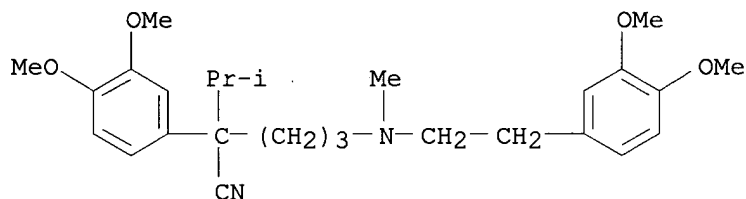
CM 1

CRN 9005-38-3  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 152-11-4 (52-53-9)  
 CMF C27 H38 N2 O4 . Cl H



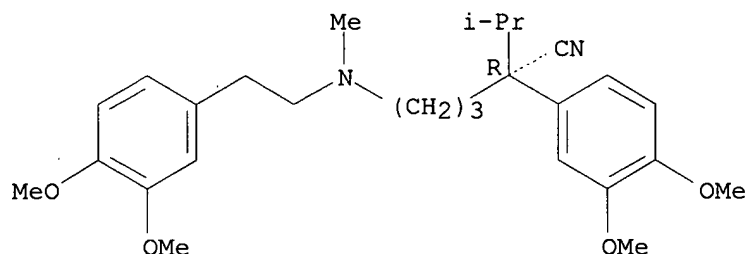
● HCl

1 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 38321-02-7 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (R)-  
 OTHER NAMES:  
 CN **(+)-(R)-Verapamil**  
 CN **(+)-Verapamil**  
 CN **(R)-Verapamil**  
 CN **d-Verapamil**  
 CN Dexverapamil  
 CN **R-(+)-Verapamil**

FS STEREOSEARCH  
 MF C27 H38 N2 O4  
 CI COM  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*,  
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMLIST, DDFU,  
 DRUGNL, DRUGU, DRUGUPDATES, EMBASE, IPA, MRCK\*, PHAR, PROMT, TOXCENTER,  
 USAN, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

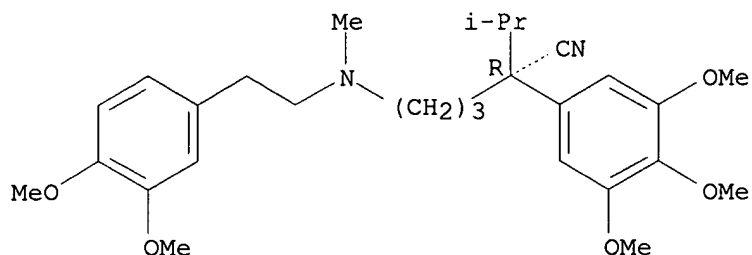


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

343 REFERENCES IN FILE CA (1957 TO DATE)  
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 344 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 19 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 38176-10-2 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA  
 INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (R)-  
 OTHER NAMES:  
 CN (+)-D 600  
 CN (+)-Gallopamil  
 CN **(+)-Methoxyverapamil**  
 CN d-D-600  
 CN R-(+)-Gallopamil  
 FS STEREOSEARCH  
 MF C28 H40 N2 O5  
 CI COM  
 LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT,  
 CHEMCATS, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

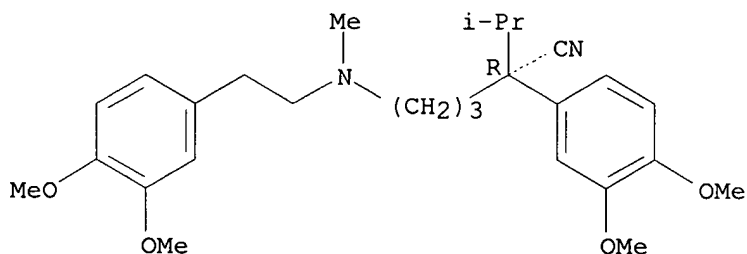


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

61 REFERENCES IN FILE CA (1957 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 61 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 20 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 38176-02-2 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (R)-  
 OTHER NAMES:  
 CN **(+)-Verapamil hydrochloride**  
 CN **(R)-Verapamil hydrochloride**  
 CN Dexverapamil monohydrochloride  
 CN LU 33925  
 CN NSC 632821  
 FS STEREOSEARCH  
 MF C27 H38 N2 O4 . Cl H  
 LC STN Files: BEILSTEIN\*, BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, EMBASE, IPA, MRCK\*, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (38321-02-7)

Absolute stereochemistry.



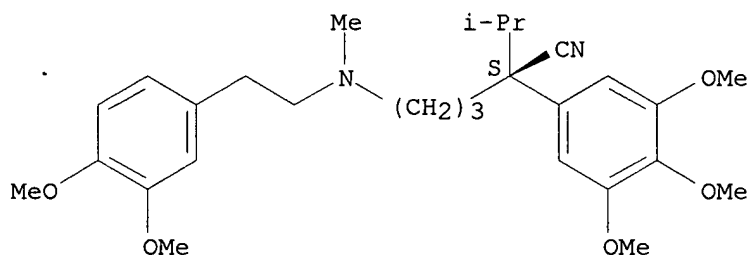
HCl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

23 REFERENCES IN FILE CA (1957 TO DATE)  
23 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2003 ACS  
RN 36622-40-9 REGISTRY  
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (S)-  
OTHER NAMES:  
CN (-)-D 600  
CN (-)-Gallopamil  
CN **(-)-Methoxyverapamil**  
CN 1-.alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4,5-trimethoxyphenylacetonitrile  
CN 1-D-600  
FS STEREOSEARCH  
MF C28 H40 N2 O5  
CI COM  
LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CIN, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



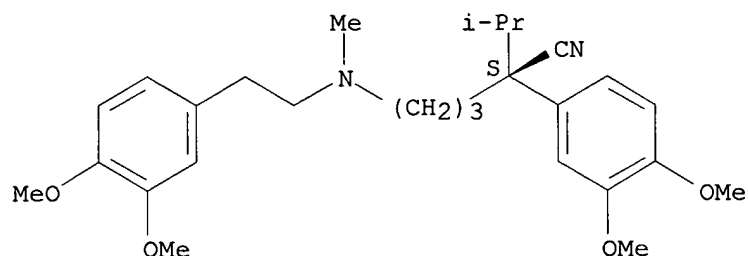
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

69 REFERENCES IN FILE CA (1957 TO DATE)  
69 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 22 OF 26 REGISTRY COPYRIGHT 2003 ACS  
RN 36622-29-4 REGISTRY  
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (S)-  
OTHER NAMES:  
CN **(-)-(S)-Verapamil**  
CN **(-)-Verapamil**  
CN **(S)-(-)-Verapamil**  
CN **(S)-Verapamil**  
CN 1-.alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4-dimethoxyphenylacetonitrile

CN **1-Verapamil**  
 FS STEREOSEARCH  
 MF C27 H38 N2 O4  
 CI COM  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*,  
 BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMLIST, IPA, PROMT,  
 TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

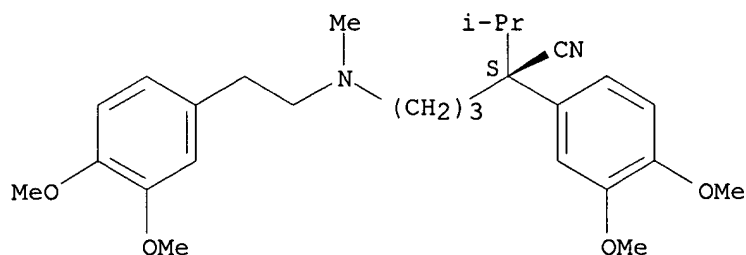


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

284 REFERENCES IN FILE CA (1957 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 285 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2003 ACS  
 RN 36622-28-3 REGISTRY  
 CN Benzeneacetonitrile, .alpha.-[3-[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride,  
 (.alpha.S)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzeneacetonitrile, .alpha.-[3-[2-(3,4-dimethoxyphenyl)ethyl]methylamino  
 ]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (S)-  
 OTHER NAMES:  
 CN **(-)-Verapamil hydrochloride**  
 CN **(S)-Verapamil hydrochloride**  
 CN LU 33926  
 FS STEREOSEARCH  
 MF C27 H38 N2 O4 . Cl H  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMCATS, CHEMLIST, TOXCENTER,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (36622-29-4)

Absolute stereochemistry.

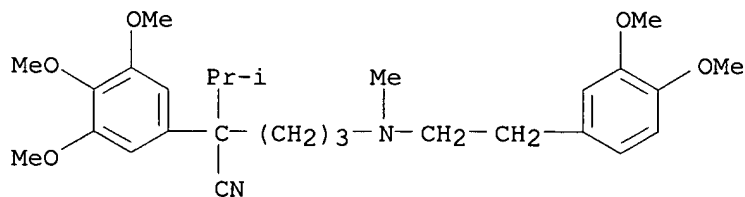


● HCl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19 REFERENCES IN FILE CA (1957 TO DATE)  
19 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 24 OF 26 REGISTRY COPYRIGHT 2003 ACS  
RN 16662-47-8 REGISTRY  
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)methylamino]-2-isopropyl-2-(3,4,5-trimethoxyphenyl)- (8CI)  
OTHER NAMES:  
CN (.+-.)-D 600  
CN (.+-.)-Gallopamil  
CN **(.+-.)-Methoxyverapamil**  
CN .alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4,5-trimethoxyphenylacetonitrile  
CN Compound D 600  
CN D 600  
CN D 600 (vasodilator)  
CN dl-D 600  
CN Gallopamil  
CN Lu 30-029  
CN **Methoxyverapamil**  
FS 3D CONCORD  
DR 56949-78-1  
MF C28 H40 N2 O5  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK\*, NIOSHTIC, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: WHO





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

749 REFERENCES IN FILE CA (1957 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

750 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 152-11-4 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]  
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN **(.+-.)-Verapamil hydrochloride**

CN Akilen

CN Anpec

CN Apo-Verap

CN Apoacor

CN Arapamyl

CN Azupamil

CN Berkatens

CN Calan

CN Calan SR

CN Calaptin

CN Calaptin 240SR

CN Cardiabeltin

CN Cardiagett

CN Cardibeltin

CN Caveril

CN Civicor

CN Civicor Retard

CN Coraver

CN Cordilox

CN Cordilox SR

CN Corpamil

CN Covera HS

CN Dignover

CN Dilacoran

CN Dilacoran HTA

CN **dl-Verapamil hydrochloride**

CN Drosteakard

CN Finoptin

CN Flamon

CN Geangin

CN Hexasoptin

CN Hexasoptin Retard

CN Ikacor

CN Ikapress

CN Iproveratril hydrochloride

CN Iso-Card SR

CN Isoptin

CN Isoptin Retard

CN Isoptin SR

CN Isoptin, hydrochloride

CN Isoptine

CN Isoptino

CN Izoptin hydrochloride

CN Lekoptin Retard

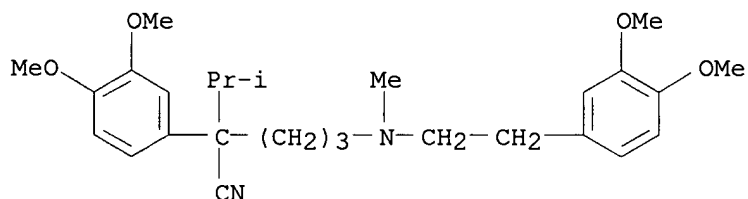
CN LU 20175

CN Manidon

CN Manidon Retard

CN Novo-Veramil

CN NSC 657799  
 CN **Verapamil hydrochloride**  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
 DISPLAY  
 DR 23313-68-0, 219944-20-4  
 MF C27 H38 N2 O4 . Cl H  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,  
 CHEMLIST, CIN, CSCHM, CSNB, DIOGENES, EMBASE, IFICDB, IFIPAT, IFIUDB,  
 IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PHARMASEARCH, PROMT, RTECS\*,  
 SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (52-53-9)



● HCl

635 REFERENCES IN FILE CA (1957 TO DATE)  
 7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 636 REFERENCES IN FILE CAPLUS (1957 TO DATE)  
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)